

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 3414 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 29 2012

See axaff03414N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.508

Comments

This is an observation of a moving target. Event positions are in the reference from of Chandra, not of the comet. Users should run a software tool such as `sso_freeze` to reposition the events in the reference from of the comet, then run normal data analysis tools such as `tgdetect` and spectral extraction.

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Energy filter allowed only events with energies 0.1 to 2.0 keV to be recorded.

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Standard software processing technique using the tool `tgdetect` failed to determine an accurate position for the zeroth order for this observation. The target is moving through the field of view during the observation. The processing software defaulted to the coordinates supplied by the user for the position of the zeroth order for the grating spectral extraction. Spectra products from this processing, which does not include `sso_freeze`, are not useful.

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Gain and CTI correction are not well calibrated on CCD_ID 5 (ACIS-S1). Default order sorting can clip some regions, particularly longward of 30A (first order). User-specified custom processing parameters may be

required in tg_resolve_events (osipfile=None, osort_lo, osort_hi ~0.5)
 though this can allow more zeroth order background at short
 wavelengths.

seq_num	100030	Sequence number
obs_id	3414	Observation id
title	ACIS-S LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF CHARGE EXCHANGE X-RAY EMISSION FROM COMET C/LINEAR WM1 (2000)	Proposal titl
observer	Dr. Carey Lisse	Principal investigator
object	C/LINEAR WM1 (2000)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	333.51743	Observer's specified target RA [deg]
dec_targ	-51.80457	Observer's specified target Dec [deg]
ra_nom	333.51094705249	Nominal RA [deg]
dec_nom	-51.813402248155	Nominal Dec [deg]
roll_nom	255.48366223896	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8505.6000079066	Sum of GTIs [s]
livetime	8397.896979149	Livetime [s]
ontime2	8505.6000079066	Sum of GTIs [s]
ontime3	8505.5287897587	Sum of GTIs [s]
ontime5	8505.6000079066	Sum of GTIs [s]
ontime6	8505.569829762	Sum of GTIs [s]
ontime7	8505.6000079066	Sum of GTIs [s]
ontime8	8499.0057794154	Sum of GTIs [s]
l2events	15731	Number of level 2 events

